

Title (en)

MECHANICAL TIMEPIECE WITH TIMED ANNULAR BALANCE ROTATING ANGLE CONTROL MECHANISM

Title (de)

MECHANISCHER ZEITMESSER MIT DREHWINKELSTEUERMECHANISMUS MIT SYNCHRONISIRTER RINGUNRUH

Title (fr)

PIECE D'HORLOGERIE MECANIQUE DOTE D'UN MECANISME DE COMMANDE DE L'ANGLE DE ROTATION DU BALANCIER ANNULAIRE REGLE

Publication

EP 1126333 A4 20011219 (EN)

Application

EP 99933157 A 19990729

Priority

JP 9904077 W 19990729

Abstract (en)

[origin: EP1126333A1] In a mechanical time piece according to the invention, a movement 400 includes a barrel complete 120, a center wheel & pinion 124, a third wheel & pinion 126, a fourth wheel & pinion 128, a balance with hairspring 140, an escape wheel & pinion 130 and a pallet fork 142. The mechanical time piece of the invention is provided with a rotational angle control mechanism constituted such that in a state in which a mainspring is completely wound up, air resistance is applied to rotation of the balance with hairspring 140 and in a state in which the mainspring is completely rewound, the air resistance is not applied to the rotation of the balance with hairspring 140. The balance rotational control mechanism includes a resist lever 436, 496 arranged to an outer peripheral portion of the balance with hairspring 140 to provide a clearance therebetween. Further, the balance rotational angle control mechanism is characterized in including a planetary gear mechanism 410 related to a barrel complete gear 120a and a ratchet wheel 116. <IMAGE>

IPC 1-7

G04B 17/06; **G04B 17/26**

IPC 8 full level

G04B 17/06 (2006.01); **G04B 17/26** (2006.01)

CPC (source: EP)

G04B 17/06 (2013.01); **G04B 17/26** (2013.01)

Citation (search report)

- [A] US 2077115 A 19370413 - MAX KNOBEL
- See references of WO 0109686A1

Cited by

EP1772791A1; EP3182216A1; US7590030B2; US9958833B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1126333 A1 20010822; **EP 1126333 A4 20011219**; CN 1328659 A 20011226; HK 1042753 A1 20020823; JP 3565227 B2 20040915; WO 0109686 A1 20010208

DOCDB simple family (application)

EP 99933157 A 19990729; CN 99813863 A 19990729; HK 02104382 A 20020611; JP 55152099 A 19990729; JP 9904077 W 19990729